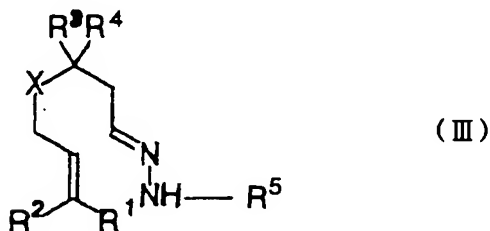


AMENDMENTS TO THE CLAIMS

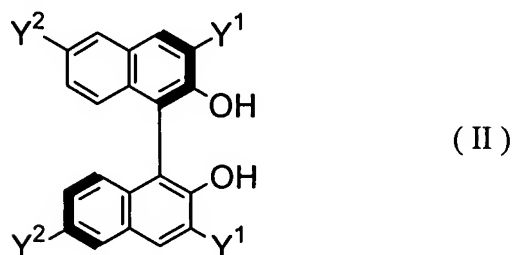
1. **(Currently Amended)** A process for an asymmetric intramolecular [3+2] cycloaddition reaction of a hydrazone ~~characterized by~~ which comprises reacting a hydrazone derivative represented by the following formula (III):



[[()] wherein R^1 , R^2 , R^3 , R^4 and R^5 are each identical or different and denote a hydrogen atom or a hydrocarbon group which may have a substituent or a hetero atom, R^1 and R^2 , R^3 and R^4 may be linked to form a ring by a hydrocarbon chain which may have a substituent or a hydrocarbon chain which has a hetero atom, and X denotes a hetero atom or a hydrocarbon chain which may have a substituent or a hetero atom [()], in the presence of an asymmetric catalyst system obtained by mixing a zirconium alkoxide represented by the following formula (I):



[[()] wherein R is a hydrocarbon group which may have a substituent [()] with a binaphthol derivative represented by the following formula (II):



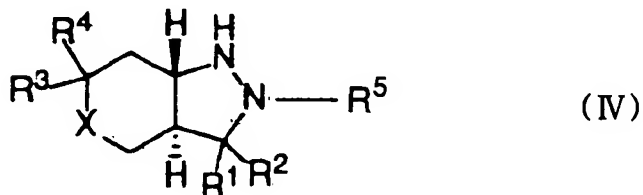
and

[[()] wherein Y^1 and Y^2 are each identical or different and denote a hydrogen atom or a halogen atom, and at least one of Y^1 and Y^2 denotes a halogen atom [()], to produce a cycloaddition reaction product.

2. **(Original)** The process for an asymmetric intramolecular [3+2] cycloaddition reaction according to claim 1, which is carried out in the coexistence of a primary alcohol.

3. **(Original)** The process for an asymmetric intramolecular [3+2] cycloaddition reaction according to claim 2, wherein the primary alcohol is an n-propanol.

4. **(Previously Presented)** The process for an asymmetric intramolecular [3+2] cycloaddition reaction according to claim 1, by which an asymmetric cyclic compound represented by the following formula (IV):



is synthesized.

5. **(Previously Presented)** The process for an asymmetric intramolecular [3+2] cycloaddition reaction according to claim 1, wherein the zirconium alkoxide used in the catalyst system is $\text{Zr}(\text{O}^i\text{Bu})_4$ or $\text{Zr}(\text{OPr})_4$.